Type Culture Collection as Accession No. 207097; and (c) a polynucleotide encoding the 20P1F12/TMPRSS2 protein of claim 1.

3. (Unchanged) An isolated polynucleotide which is fully complementary to a polynucleotide according to claim 2.

4. (Unchanged) A recombinant expression vector which contains a polynucleotide according to claim 3.

5. (Unchanged) A host cell which contains an expression vector according to claim 4.

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (New) A polypeptide comprising a fragment of the 20P1F12/TMPRSS2 protein of claim 1, wherein the polypeptide fragment comprises the valine residue at position 160.

21. (New) A polypeptide comprising a fragment of the 20P1F12/TMPRSS2 protein of claim 1, wherein the polypeptide fragment comprises the isoleucine residue at position 242.

22. (New) A polypeptide comprising a fragment of the 20P1F12/TMPRSS2 protein of claim 1, wherein the polypeptide fragment comprises the glutamic acid residue at position 329.

23. (New) A polypeptide comprising a fragment of the 20P1F12/TMPRSS2 protein of claim 1, wherein the polypeptide fragment comprises the lysine residue at position 449.

24. (New) A polypeptide comprising a fragment of the 20P1F12/TMPRSS2 protein of claim 1, wherein the polypeptide fragment comprises the arginine residue at position 489.

25. (New) A polypeptide comprising a fragment of the 20P1F12/TMPRSS2 protein of claim 1, wherein the polypeptide fragment comprises the aspartic acid residue at position 491.

26. (New) The polypeptide fragment of claim 20, wherein the fragment comprises an immunoreactive epitope within the protease domain.

27. (New) The polypeptide fragment of claim 21, wherein the fragment comprises an immunoreactive epitope within the protease domain.